STIC Search Report
EIC 2100

STIC Database Tracking Number: 103032

TO: James Seal **Location: 4D11** **Art Unit : 2131** **Thursday, September 04, 2003** **Case Serial Number: 08/895493**	**From: David Holloway** **Location: EIC 2100** **PK2-4B30** **Phone: 308-7794** **david.holloway@uspto.gov**

Search Notes

Dear Examiner Seal,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

Dave [redacted]

STIC EIC 2100 Search Request Form

103032

Today's Date: 9/4/03

What date would you like to use to limit the search?

Priority Date: Other:

Name James Seal

AU 2131 Examiner # 76900

Room # 4D11 Phone 3084562

Serial # 08/895,493 RCE

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other _____

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

April 1994

Need content or program key teaching before April 1994

STIC Searcher Holloway Phone 308-7794

Date picked up 9-4-3 Date Completed 9-4-03

sira Search and Information Resources Administration

DIALOG-830 99/100

145 min.

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Set     Items   Description
S1          4   AU=(BESTLER, C? OR BESTLER C?)
S2          4   RD (unique items)
File   8:Ei Compendex(R) 1970-2003/Aug W4
         (c) 2003 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2003/Aug
         (c) 2003 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2003/Jul 31
         (c) 2003, EBSCO Publishing
File  65:Inside Conferences 1993-2003/Aug W5
         (c) 2003 BLDSC all rts. reserv.
File   2:INSPEC 1969-2003/Aug W4
         (c) 2003 Institution of Electrical Engineers
File  94:JICST-EPlus 1985-2003/Aug W5
         (c)2003 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Sep 02
         (c) 2003 The Gale Group
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
File   6:NTIS 1964-2003/Aug W5
         (c) 2003 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2003/Aug W4
         (c) 2003 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2003/Aug W5
         (c) 2003 Inst for Sci Info
File  62:SPIN(R) 1975-2003/Jul W3
         (c) 2003 American Institute of Physics
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Jul
         (c) 2003 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2003/Aug W3
         (c) 2003 FIZ TECHNIK
File 275:Gale Group Computer DB(TM) 1983-2003/Sep 03
         (c) 2003 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2003/Aug 25
         (c) 2003 The Gale group
File  75:TGG Management Contents(R) 86-2003/Aug W3
         (c) 2003 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2003/Sep 03
         (c) 2003 The Gale Group
File  16:Gale Group PROMT(R) 1990-2003/Sep 03
         (c) 2003 The Gale Group
File 624:McGraw-Hill Publications 1985-2003/Sep 03
         (c) 2003 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2003/Aug W5
         (c) 2003 ProQuest
File 613:PR Newswire 1999-2003/Sep 04
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2003/Jul
         (c) 2003 The HW Wilson Co
File 239:Mathsci 1940-2003/Oct
         (c) 2003 American Mathematical Society
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2003/Sep 03
         (c) 2003 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2003/Jul
         (c) 2003 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Sep 03
         (c) 2003 The Gale Group
File 674:Computer News Fulltext 1989-2003/Aug W5
         (c) 2003 IDG Communications
File  88:Gale Group Business A.R.T.S. 1976-2003/Sep 04
         (c) 2003 The Gale Group
File 369:New Scientist 1994-2003/Aug W4
```

2/9/3 (Item 1 from file: 65)
DIALOG(R)File 65:Inside Conferences

01749347 INSIDE CONFERENCE ITEM ID: CN017788570
Headend Management of MPEG Transport Streams From Multiple Sources
Bestler, C.
CONFERENCE: National Cable Television Association-Annual convention; 45th
CABLE -CONVENTION NATIONAL CABLE TELEVISION ASSOCIATION, 1996; 45th P: 266-273
NCTA, 1996
ISBN: 0940272245
LANGUAGE: English DOCUMENT TYPE: Conference Papers and programme
CONFERENCE EDITOR(S): Rutkowski, K.
CONFERENCE SPONSOR: National Cable Television Association
CONFERENCE LOCATION: Los Angeles, CA
CONFERENCE DATE: Apr 1996 (199604) (199604)

BRITISH LIBRARY ITEM LOCATION: 2943.950200
DESCRIPTORS: cable television; NCTA

2/9/4 (Item 2 from file: 65)
DIALOG(R)File 65:Inside Conferences

01537299 INSIDE CONFERENCE ITEM ID: CN015263060
The Need for a Single Consolidated Conditional Access Control System for Analog and Hybrid Analog/Digital Addressable Decoders
Bestler, C.
CONFERENCE: National Cable Television Association-Annual convention
CABLE -CONVENTION NATIONAL CABLE TELEVISION ASSOCIATION, 1995; 44th P: 247-257
The Association, 1995
ISBN: 0940272237
LANGUAGE: English DOCUMENT TYPE: Conference Papers
CONFERENCE EDITOR(S): Rutkowski, K.
CONFERENCE SPONSOR: National Cable Television Association
CONFERENCE LOCATION: Dallas, TX
CONFERENCE DATE: May 1995 (19950) (19950)

BRITISH LIBRARY ITEM LOCATION: 2943.950200
DESCRIPTORS: NCTA; cable television

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Set     Items   Description
S1       3659   (CATEGOR? OR PROGRAM? OR CONDITIONAL()ACCESS? OR PERMIT)(2-
            N)(KEYPAIR? OR KEY? ?)
S2      44882   CATV OR VOD OR VIDEO()ON()DEMAND? OR CABLE(N)(TV OR TELEVI-
            SION? OR BROADCAST?) OR SATELLITE? OR DIGITAL()(RIGHT? OR PRI-
            VILEGE?) OR (RIGHT? OR COPYRIGHT? OR INTELLECTUAL()PROPERT?)(-
            N)(MANAGE? OR ADMINIST? OR CONTROL?)
S3     606811   CONTENT? OR SUBJECT OR SUBJECTS OR CATEGORY OR CATEGORIES?
            OR TOPIC?
S4      27120   ENCRYPT? OR ENCIPHER? OR DECIPHER? OR DECRYPT? OR CIPHER? -
            OR CYPHER? OR CRYPTOGRAPH? OR CRYPTO
S5     500988   (RIGHT? OR COPYRIGHT? OR ROYALTY OR ROYALTIES OR INTELLECT-
            UAL()PROPERT?)(2N)(MANAGE? OR RIGHT? OR ADMINISTRAT? OR CONTR-
            OL?)
S6       9015   PPV? OR PAY()PER()VIEW? OR VOD OR VIDEO()ON()DEMAND? OR DI-
            GITAL()MEDIA? OR (E OR ELECTRONIC OR DIGITAL)()BOOK? ? OR EBO-
            OK?
S7         57   S1(S)S2(S)S3
S8         33   S5(5N)(S2 OR S6)(S)S1
S9         67   S1(3N)S5
S10        20   S4(S)S9
S11        23   S4(3S)S9
S12       117   S7 OR S8 OR S9
S13         8   S12 NOT PY>1994
S14         7   S13 NOT PD=19940401:19970401
S15         7   S14 NOT PD=19970401:20010401
S16         7   S15 NOT PD=20010401:20030909
S17         1   S16 AND IC=H04N?
S18         1   PA=BESTLER?
S19         6   AU=BESTLER?
S20         0   S19 AND IC=H04N?
S21         0   S20 AND (S6 OR S2)
S22        89   S1(S)(S2 OR S6)(S)S4
S23        55   S22 AND IC=H04N?
S24        38   S23 NOT AD=19940401:19970401
S25        12   S24 NOT AD=19970401:20010401
S26         9   S25 NOT AD=20010401:20030905
S27        58   S1(S)S6
S28        37   S27(S)S4
S29         0   S28 NOT S22
?show files
File 348:EUROPEAN PATENTS 1978-2003/Aug W04
         (c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030828,UT=20030821
         (c) 2003 WIPO/Univentio
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'26/5,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00472875
System for maintaining scrambling security in a communication network
System zur Bewahrung der Verschlusselungssicherheit eines Nachrichtennetzes
Systeme pour le maintien de la securite du codage dans un reseau de communication

PATENT ASSIGNEE:
GENERAL INSTRUMENT CORPORATION OF DELAWARE, (1783080), 181 West Madison Street, Chicago, Illinois 60602, (US), (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
INVENTOR:
Esserman, James Neil, 3844 Radcliffe Lane, San Diego, California 92122, (US)
Heller, Jerrold A., 4932 Rancho Viejo Drive, Del Mar, California 92014, (US)
LEGAL REPRESENTATIVE:
Hoeger, Stellrecht & Partner (100381), Uhlandstrasse 14 c, 70182 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 485887 A2 920520 (Basic)
EP 485887 A3 921209
EP 485887 B1 970806
APPLICATION (CC, No, Date): EP 91118977 911107;
PRIORITY (CC, No, Date): US 614940 901116
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS: **H04N-007/16**
CITED PATENTS (EP A): EP 127381 A; WO 8806826 A; US 4991208 A; US 5029207 A
CITED REFERENCES (EP A):
IEEE INTERNATIONAL CONFERENCE on CONSUMER ELECTRONICS, 6-8 June, 1990, Rosemont, Illinois, US, pages 316-317; P.J.Y. PERYET: 'Defeating pay-TV pirates with smart cards'
INTERNATIONAL CONFERENCE on SECURE COMMUNICATION SYSTEMS, 22-23 February, 1984, IEE, London , GB, pages 66-69; A.G. MASON: 'A pay-per-view conditional access system for DBS by means of secure over-air credit transmissions';

ABSTRACT EP 485887 A2
A secure communication network serves a plurality of terminals (30, 34, 38) grouped into different security categories. Each terminal includes a replaceable security element (32, 36, 40) containing a security algorithm specific to the security category to which the terminal is assigned. Upon the breach of a particular security version, the security elements in the affected category are replaced with new elements containing a different algorithm. The security elements are relatively low cost, and can be replaced on an as needed or periodic basis to maintain system security. (see image in original document)
ABSTRACT WORD COUNT: 95

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse:	20000202	B1	Date of lapse of European Patent in a contracting state (Country, date): GR 19970806, IT 19970806,
Application:	920520	A2	Published application (A1with Search Report ;A2without Search Report)
Search Report:	921209	A3	Separate publication of the European or International search report
Examination:	930428	A2	Date of filing of request for examination: 930227
*Assignee:	940803	A2	Applicant (transfer of rights) (change): GI CORPORATION (1739540) 2200 Byberry Road Hatboro, Pennsylvania 19040 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
*Assignee:	940921	A2	Applicant (transfer of rights) (change): GENERAL INSTRUMENT CORPORATION OF DELAWARE (1783080) 181 West Madison Street Chicago,

Illinois 60602 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)

Examination:	950405 A2	Date of despatch of first examination report: 950220
Grant:	970806 B1	Granted patent
Oppn None:	980729 B1	No opposition filed
Lapse:	991020 B1	Date of lapse of European Patent in a contracting state (Country, date): IT 19970806,

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9708W1	1075
CLAIMS B	(German)	9708W1	1060
CLAIMS B	(French)	9708W1	1225
SPEC B	(English)	9708W1	2991
Total word count - document A			0
Total word count - document B			6351
Total word count - documents A + B			6351

INTERNATIONAL PATENT CLASS: **H04N-007/16**

...SPECIFICATION signals without any security element installed.
The present invention can be advantageously used in a **satellite** television system that transmits scrambled television signals for receipt by authorized subscribers having the necessary **satellite** reception equipment. In a **satellite** television system marketed by the VideoCipher Division of General Instrument Corporation, details of which are...

...key" signal is generated by processing an initialization vector signal in accordance with the data **encryption** standard ("DES") algorithm upon the algorithm being keyed by a common **category key** signal. A unique scrambling key stream is generated by processing the initialization vector signal in...

...television signal is scrambled in accordance with the scrambling key stream. A plurality of unique **encrypted category key** signals individually addressed to different selected subscriber descramblers are generated by **encrypting** the initial common **category key** signal in accordance with the DES algorithm upon the algorithm being keyed by a plurality...

...with that descrambler. The scrambled television signal, the initialization vector signal, and the plurality of **encrypted category key** signals are broadcast to the descramblers. DES algorithms are employed at the descramblers to reproduce the **encryption** key stream and descramble the television signal in accordance therewith. As noted above, each descrambler...

...which unit key is stored in a secure memory for use in reproducing the common **category key** signal when the descrambler is addressed by its unique **encrypted category key** signal.
As indicated, each terminal in accordance with the present invention is supported by its...

'26/5,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00467788
Information processing apparatus with replaceable security element
Informationsverarbeitungsgerat mit auswechselbarem Sicherheitselement
Dispositif de traitement d'information avec element de securite remplacable
PATENT ASSIGNEE:
General Instrument Corporation, (2532981), 101 Tournament Drive, Horsham, PA 19044, (US), (Proprietor designated states: all)
INVENTOR:
Esserman, James Neil, 3844 Radcliffe Lane, San Diego, California 92122, (US)
Moroney, Paul, 1249 Avocet Court, Cardiff, California 92007, (US)
LEGAL REPRESENTATIVE:
Hoeger, Stellrecht & Partner (100381), Uhlandstrasse 14 c, 70182 Stuttgart, (DE)
PATENT (CC, No, Kind, Date): EP 471373 A2 920219 (Basic)
EP 471373 A3 920729
EP 471373 B1 991006
APPLICATION (CC, No, Date): EP 91113757 910816;
PRIORITY (CC, No, Date): US 568990 900817
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS: **H04N-007/167**
CITED PATENTS (EP A): WO 8500491 A; WO 8500491 A; GB 2151886 A; GB 2151886 A; EP 194769 A; EP 132401 A; EP 127381 A
CITED PATENTS (EP B): EP 127381 A; EP 132401 A; EP 194769 A; WO 85/00491 A; GB 2151886 A

ABSTRACT EP 471373 A2
A field upgradeable security system deciphers signals received from a communication network. An information processor (10) includes a receptacle for receiving a replaceable security element (12). The replaceable security element generates a working key (WK) necessary to the operation of the information processor. The working key is communicated to the information processor encrypted under a secret key (A(M)). The information processor decrypts the encrypted working key for use in deciphering a received communication signal. Additional layers of encryption (A(C), U(M), U(C)) can be added to the communications between the information processor and security element to increase the level of security. (see image in original document)
ABSTRACT WORD COUNT: 107
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Oppn None:	000920	B1	No opposition filed: 20000707
Application:	920219	A2	Published application (A1with Search Report ;A2without Search Report)
Lapse:	030212	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19991006, BE 19991006, CH 19991006, LI 19991006, NL 19991006, SE 19991006,
Lapse:	001227	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19991006, BE 19991006, CH 19991006, LI 19991006,
Lapse:	001213	B1	Date of lapse of European Patent in a contracting state (Country, date): BE 19991006, CH 20000111, LI 20000111,
Lapse:	001025	B1	Date of lapse of European Patent in a contracting state (Country, date): BE 19991006,
Lapse:	001220	B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19991006, BE 19991006, CH 20000111, LI 20000111,

Lapse:	020600 B1	Date of lapse of European Patent in a contracting state (Country, date): AT 19991006, BE 19991006, CH 19991006, LI 19991006, SE 19991006,
Search Report:	920729 A3	Separate publication of the European or International search report
Examination:	921202 A2	Date of filing of request for examination: 921006
*Assignee:	940803 A2	Applicant (transfer of rights) (change): GI CORPORATION (1739540) 2200 Byberry Road Hatboro, Pennsylvania 19040 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
*Assignee:	940921 A2	Applicant (transfer of rights) (change): GENERAL INSTRUMENT CORPORATION OF DELAWARE (1783080) 181 West Madison Street Chicago, Illinois 60602 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
Examination:	950308 A2	Date of despatch of first examination report: 950120
*Assignee:	981021 A2	Applicant (transfer of rights) (change): NextLevel Systems, Inc. (2532980) 101 Tournament Drive Horsham, PA 19044 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
*Assignee:	981021 A2	Previous applicant in case of transfer of rights (change): GENERAL INSTRUMENT CORPORATION OF DELAWARE (1783080) 181 West Madison Street Chicago, Illinois 60602 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
*Assignee:	981028 A2	Applicant (transfer of rights) (change): General Instrument Corporation (2532981) 101 Tournament Drive Horsham, PA 19044 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
*Assignee:	981028 A2	Previous applicant in case of transfer of rights (change): NextLevel Systems, Inc. (2532980) 101 Tournament Drive Horsham, PA 19044 (US) (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;NL;SE)
Grant:	991006 B1	Granted patent

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9940	1704
CLAIMS B	(German)	9940	1516
CLAIMS B	(French)	9940	1945
SPEC B	(English)	9940	4762
Total word count - document A			0
Total word count - document B			9927
Total word count - documents A + B			9927

INTERNATIONAL PATENT CLASS: **H04N-007/167**

...SPECIFICATION the data necessary to enable the security element to generate the working keys required by **crypto** 24 will be transmitted via satellite or other means (e.g., telephone), to enable authorized...

...In the event remote initialization is not used, information not frequently broadcast (i.e., the **category** **key**) can be sent ahead of time and stored by the information processor for later transfer...

26/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00364842

Reproduction of secure keys by using distributed key generation data
Reproduktion von geschutzten Schlusseln durch Erzeugungsdaten von verteilten Schlusseln
Reproduction de cles protegees en utilisant des donnees de generation de cles distribuees

PATENT ASSIGNEE:
GENERAL INSTRUMENT CORPORATION OF DELAWARE, (1403171), 2200 Byberry Road, Hatboro, Pennsylvania 19040, (US), (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;NL;SE)
INVENTOR:
Bennett, Christopher John, 4820 Vista Street, San Diego Californiia 92116 , (US)
Moroney, Paul, 1249 Avocet Court, Cardiff-By-The-Sea California 92007, (US)
Harding, Michael V., 1462 Oliver Avenue Apt. C., San Diego California 92121, (US)
LEGAL REPRESENTATIVE:
Blatchford, William Michael et al (48801), Withers & Rogers 4 Dyer's Buildings Holborn, London EC1N 2JT, (GB)
PATENT (CC, No, Kind, Date): EP 343805 A2 891129 (Basic)
EP 343805 A3 910313
EP 343805 B1 971001
APPLICATION (CC, No, Date): EP 89304575 890505;
PRIORITY (CC, No, Date): US 200111 880527
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; NL; SE
INTERNATIONAL PATENT CLASS: **H04N-007/167** ; H04L-009/00
CITED PATENTS (EP A): WO 8500491 A; EP 132401 A; EP 132401 A; EP 164983 A; EP 194769 A; EP 127381 A
CITED REFERENCES (EP A):
INTERNATIONAL BROADCASTING CONVENTION, Brighton, 21st - 25th September 1984, 229/85, pages 282-288, IBA, GB; A.G. MASON: "A pay-per-view conditional access system for DBS by means of secure over-air credit transmission having a short cycle time";

ABSTRACT EP 343805 A2

A key security system provides for the reproduction of secure keys by using distributed key generation data and a distributed encrypted prekey. The system encrypts program key generation data (17) with a program key prekey (18) in accordance with a first encryption algorithm to produce the program key (20); processes the program key (20) to produce a keystream (25); and processes an information signal (26) with the keystream to produce a scrambled information signal (27). The program key prekey (18) is encrypted with a category key (22) in accordance with a second encryption algorithm to produce an encrypted program key prekey (23). The scrambled information signal (27) the program key generation data (17) and the encrypted program key prekey (23) are distributed to descramblers. The descrambler within the key security system decrypts the distributed encrypted program key prekey (23) with the category key (22) in accordance with the second encryption algorithm to reproduce the program key prekey (18); encrypts the distributed program key generation data (17) with the reproduced program key prekey (18) in accordance with the first encryption algorithm to reproduce the program key (20); processes the reproduced program key (20) to reproduce the keystream (25); and processes the distributed scrambled information signal (27) with the reproduced keystream (25) to descramble the distributed scrambled information signal. The key generation data includes authorization data that must be processed by the authorization processor (35) in the descrambler in order to enable the descrambler. The use of authorization data as key generation data protects the authorization data from spoofing attacks. When more data must be protected than a single operation of the encryption algorithm can support, then additional data blocks are protected by chaining the system, wherein the output from one stage forms part of the input to the next. The key generation data for

the program key includes a sequence number securely associated with the category key to thereby "timelock" program key reproduction to the use of a current category key and thus prevent an attack based upon the use of an obsolete category key.

ABSTRACT WORD COUNT: 351

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse:	20000126	B1	Date of lapse of European Patent in a contracting state (Country, date): GR 19971001, IT 19971001,
Application:	891129	A2	Published application (A1with Search Report ;A2without Search Report)
Search Report:	910313	A3	Separate publication of the European or International search report
Examination:	910626	A2	Date of filing of request for examination: 910429
Examination:	930421	A2	Date of despatch of first examination report: 930308
*Assignee:	950517	A2	Applicant (transfer of rights) (change): GENERAL INSTRUMENT CORPORATION OF DELAWARE (1403171) 2200 Byberry Road Hatboro, Pennsylvania 19040 (US) (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;NL;SE)
*Assignee:	950517	A2	Previous applicant in case of transfer of rights (change): GENERAL INSTRUMENT CORPORATION (264771) 767 Fifth Avenue New York New York 10153 (US) (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;NL;SE), GENERAL INSTRUMENT CORPORATIONOF DELAWARE (1917890) 767 Fifth Avenue New York New York 10153 (US) (applicant designated states: AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;NL;SE)
Grant:	971001	B1	Granted patent
Oppn None:	980923	B1	No opposition filed
Lapse:	991020	B1	Date of lapse of European Patent in a contracting state (Country, date): IT 19971001,

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9709W4	2635
CLAIMS B	(German)	9709W4	2237
CLAIMS B	(French)	9709W4	3168
SPEC B	(English)	9709W4	8849
Total word count - document A			0
Total word count - document B			16889
Total word count - documents A + B			16889

INTERNATIONAL PATENT CLASS: **H04N-007/167** ...

...SPECIFICATION The first encryption unit 88 encrypts the preencrypted program prekey prekey 96 with the CATV **category key** 83a in accordance with a first **encryption** algorithm, such as the DES algorithm, to produce an **encrypted** program prekey prekey 97. Spotbeam mask data indicates geographical regions where descrambling of the broadcast television signal is authorized. The **encrypted** program prekey prekey 97 in included in the **CATV** program rekey message 78.

The second encryption unit 89 encrypts the program prekey generation data...0-6.

The decryption unit 168 decrypts the encrypted prekey prekey 97 with the CATV **category key** 83a in accordance with the first algorithm used by the **encryption** unit 88 in the first control computer (Figure 5A) to provide reproduce the preencrypted program...

```
Set     Items   Description
S1       4116   (CATEGOR? OR PROGRAM? OR CONDITIONAL()ACCESS? OR PERMIT)(2-
                N)KEY? ?
S2    2134069   CATV OR VOD OR VIDEO()ON()DEMAND? OR CABLE(N)(TV OR TELEVI-
                SION? OR BROADCAST?) OR SATELLITE? OR DIGITAL()(RIGHT? OR PRI-
                VILEGE?) OR (RIGHT? OR COPYRIGHT? OR INTELLECTUAL()PROPERT?)(-
                N)(MANAGE? OR RIGHT?)
S3    2965551   CONTENT? OR SUBJECT OR SUBJECTS OR CATEGORY OR CATEGORIES?
                OR TOPIC?
S4      65374   ENCRYPT? OR ENCIPHER? OR DECIPHER? OR DECRYPT? OR CIPHER? -
                OR CYPHER? OR CRYPTOGRAPH? OR CRYPTO
S5    1565770   (RIGHT? OR COPYRIGHT? OR ROYALTY OR ROYALTIES OR INTELLECT-
                UAL()PROPERT?)(2N)(MANAGE? OR RIGHT? OR ADMINISTRAT? OR CONTR-
                OL?)
S6      25752   PPV? OR PAY()PER()VIEW? OR VOD OR VIDEO()ON()DEMAND? OR DI-
                GITAL()MEDIA?
S7         29   S1 AND S2 AND S3
S8        100   S1 AND S5
S9          4   S1 AND S6
S10   1563308   S5 AND (S2 OR S6)
S11      2611   S10 AND S4
S12       982   S11 AND (KEY? ? OR KEYPAIR?)
S13   1563255   S5(3N)(S2 OR S6)
S14     28062   S10(S)S13 AND (KEY? ? OR KEYPAIR?)
S15       977   S4 AND S14
S16         8   S1 AND S15
S17       365   S5(3N)(S2 OR S6)(3N)S4
S18        41   S17(5N)(KEY? ? OR KEYPAIR?)
S19       159   S18 OR S8 OR S9 OR S7
S20       135   RD (unique items)
S21        38   S20 NOT PY>1994
S22        37   S21 NOT PD=19940401:19970401
S23        37   S22 NOT PD=19970401:20010401
S24        37   S23 NOT PD=20010401:20030909
File   8:Ei Compendex(R) 1970-2003/Aug W4
         (c) 2003 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2003/Aug
         (c) 2003 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2003/Jul 31
         (c) 2003, EBSCO Publishing
File  65:Inside Conferences 1993-2003/Aug W5
         (c) 2003 BLDSC all rts. reserv.
File   2:INSPEC 1969-2003/Aug W4
         (c) 2003 Institution of Electrical Engineers
File  94:JICST-EPlus 1985-2003/Aug W5
         (c)2003 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Sep 02
         (c) 2003 The Gale Group
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
         (c) 2003, EBSCO Pub.
File   6:NTIS 1964-2003/Aug W5
         (c) 2003 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2003/Aug W4
         (c) 2003 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2003/Aug W5
         (c) 2003 Inst for Sci Info
File  62:SPIN(R) 1975-2003/Jul W3
         (c) 2003 American Institute of Physics
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Jul
         (c) 2003 The HW Wilson Co.
File  95:TEME-Technology & Management 1989-2003/Aug W3
         (c) 2003 FIZ TECHNIK
```

24/5/11 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC

03553853 INSPEC Abstract Number: C90015000
Title: File protection with operating system security
Author(s): Chang-Kyun Shin; Eun-Jae Choi
Journal: Korea Information Science Society Review vol.7, no.5 p. 35-41
Publication Date: 1989 Country of Publication: South Korea
CODEN: CHKWEN
Language: Korean Document Type: Journal Paper (JP)
Treatment: General, Review (G); Practical (P)
Abstract: Discusses access controls; secrecy; integrity; the security kernel; access matrix model; protection domains; access **rights** ; lock/ **key** mechanism; revocation; **encryption** ; **decryption** ; **cryptographic** sealing; information flow control; security classification; security clearance; the principle of least privilege or 'need to know'; reference monitors; tamper-proof systems; penetration, intrusion and insider attacks; violations; vulnerability; and clandestine users. (14 Refs)
Subfile: C
Descriptors: operating systems (computers); security of data
Identifiers: file protection; operating system security; access controls; secrecy; integrity; security kernel; access matrix model; protection domains; access rights; lock/key mechanism; revocation; encryption; decryption; cryptographic sealing; information flow control; security classification; security clearance; least privilege; need to know; reference monitors; tamper-proof systems; penetration; intrusion; insider attacks; violations; vulnerability; clandestine users
Class Codes: C6150J (Operating systems); C6130 (Data handling techniques); C0310D (Installation management)

24/5/26 (Item 6 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.

00236735 91DM03-005
Valkyrie undoes Clipper
Lima, Tony
DBMS , March 1, 1991 , v4 n3 p32, 2 Pages
ISSN: 1041-5173
Languages: English
Document Type: Software Review
Hardware/Software Compatibility: Clipper Summer '87
Geographic Location: United States

Presents a favorable review of Valkyrie ($995), a reverse compiler for Clipper Summer '87, from Programming Solutions Inc. of Salt Lake City, UT (801). Says it changes an .exe file into the code that was compiled. Release 1.0 cannot handle program overlays; your program must be compiled into a single .exe file. Also handles symbol tables up to about 48K. Cautions that any procedures stored in separate program files are includes in the main program file after compiling. Says that you can use Valkyrie only on programs that you own or have **rights** to because it requires that a special key be present in the errorsys.prg file of the program you want to decompile. You can add this **key** to your **program** before you compile them. (vl)

Descriptors: Compiler; Database; Software Review
Identifiers: Valkyrie; Programming Solutions

```
Set     Items   Description
S1       5970   (CATEGOR? OR PROGRAM? OR CONDITIONAL()ACCESS? OR PERMIT)(2-
            N)(KEYPAIR? OR KEY? ?)
S2     200176   CATV OR VOD OR VIDEO()ON()DEMAND? OR CABLE(N)(TV OR TELEVI-
            SION? OR BROADCAST?) OR SATELLITE? OR DIGITAL()(RIGHT? OR PRI-
            VILEGE?) OR (RIGHT? OR COPYRIGHT? OR INTELLECTUAL()PROPERT?)(-
            N)(MANAGE? OR ADMINIST? OR CONTROL?)
S3    1425156   CONTENT? OR SUBJECT OR SUBJECTS OR CATEGORY OR CATEGORIES?
            OR TOPIC?
S4      20117   ENCRYPT? OR ENCIPHER? OR DECIPHER? OR DECRYPT? OR CIPHER? -
            OR CYPHER? OR CRYPTOGRAPH? OR CRYPTO
S5    3332634   (RIGHT? OR COPYRIGHT? OR ROYALTY OR ROYALTIES OR INTELLECT-
            UAL()PROPERT?)(2N)(MANAGE? OR RIGHT? OR ADMINISTRAT? OR CONTR-
            OL?)
S6      20910   PPV? OR PAY()PER()VIEW? OR VOD OR VIDEO()ON()DEMAND? OR DI-
            GITAL()MEDIA? OR (E OR ELECTRONIC OR DIGITAL)()BOOK? ? OR EBO-
            OK?
S7          2   S1(S)S2(S)S3
S8          1   S5(5N)(S2 OR S6)(S)S1
S9         14   S1(3N)S5
S10         0   S4(S)S9
S11         0   S4(3S)S9
S12        17   S7 OR S8 OR S9
S13        11   S12 NOT PY>1994
S14        10   S13 NOT PD=19940401:19970401
S15        10   S14 NOT PD=19970401:20010401
S16        10   S15 NOT PD=20010401:20030909
S17        10   RD (unique items)
S18         0   S1(S)S2(S)S3(S)S4
File 387:The Denver Post 1994-2003/Sep 03
         (c) 2003 Denver Post
File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06
         (c) 2002 Phoenix Newspapers
File 494:St LouisPost-Dispatch 1988-2003/Sep 01
         (c) 2003 St Louis Post-Dispatch
File 498:Detroit Free Press 1987-2003/Sep 02
         (c) 2003 Detroit Free Press Inc.
File 631:Boston Globe 1980-2003/Sep 03
         (c) 2003 Boston Globe
File 633:Phil.Inquirer 1983-2003/Sep 02
         (c) 2003 Philadelphia Newspapers Inc
File 638:Newsday/New York Newsday 1987-2003/Sep 02
         (c) 2003 Newsday Inc.
File 640:San Francisco Chronicle 1988-2003/Sep 04
         (c) 2003 Chronicle Publ. Co.
File 641:Rocky Mountain News Jun 1989-2003/Sep 01
         (c) 2003 Scripps Howard News
File 702:Miami Herald 1983-2003/Aug 29
         (c) 2003 The Miami Herald Publishing Co.
File 703:USA Today 1989-2003/Sep 03
         (c) 2003 USA Today
File 704:(Portland)The Oregonian 1989-2003/Sep 03
         (c) 2003 The Oregonian
File 713:Atlanta J/Const. 1989-2003/Sep 04
         (c) 2003 Atlanta Newspapers
File 714:(Baltimore) The Sun 1990-2003/Sep 03
         (c) 2003 Baltimore Sun
File 715:Christian Sci.Mon. 1989-2003/Sep 04
         (c) 2003 Christian Science Monitor
File 725:(Cleveland)Plain Dealer Aug 1991-2003/Sep 03
         (c) 2003 The Plain Dealer
File 735:St. Petersburg Times 1989- 2003/Sep 03
         (c) 2003 St. Petersburg Times
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Set     Items   Description
S1       2126   (CATEGOR? OR PROGRAM? OR CONDITIONAL()ACCESS? OR PERMIT)(2-
            N)KEY? ?
S2     481760   CATV OR VOD OR VIDEO()ON()DEMAND? OR CABLE(N)(TV OR TELEVI-
            SION? OR BROADCAST?) OR SATELLITE? OR DIGITAL()(RIGHT? OR PRI-
            VILEGE?) OR (RIGHT? OR COPYRIGHT? OR INTELLECTUAL()PROPERT?)(-
            N)(MANAGE? OR RIGHT?)
S3     869221   CONTENT? OR SUBJECT OR SUBJECTS OR CATEGORY OR CATEGORIES?
            OR TOPIC?
S4           9   S1(3N)S3 AND S2
S5         116   S1(3N)S3
S6          15   S5 AND (ENCRYPT? OR ENCIPHER? OR CIPHER? OR CYPHER? OR CRY-
            PTOGRAPH? OR CRYPTO? ?)
S7          10   S6 NOT S4
S8          10   S7 NOT AD=19940401:19970401
S9           8   S8 NOT AD=19970401:20000401
S10          3   S9 NOT AD=20000401:20030905
S11    436268   (RIGHT? OR COPYRIGHT? OR ROYALTY OR ROYALTIES OR INTELLECT-
            UAL()PROPERT?)(2N)(MANAGE? OR RIGHT? OR ADMINISTRAT? OR CONTR-
            OL?)
S12         53   S1 AND S11
S13         10   S12 AND (ENCRYPT? OR ENCIPHER? OR CIPHER? OR CYPHER? OR DE-
            CRYPT? OR DECIPHER? OR RSA OR DES OR CRYPTO?)
S14       2925   PPV OR PAY()PER()VIEW? OR VOD OR VIDEO()ON()DEMAND? OR DIG-
            ITAL()MEDIA?
S15          5   S1 AND S14
S16          5   S15 NOT (S13 OR S7 OR S4 OR S6)
S17          5   IDPAT (sorted in duplicate/non-duplicate order)
S18          5   IDPAT (primary/non-duplicate records only)
File 347:JAPIO Oct 1976-2003/May(Updated 030902)
         (c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200356
         (c) 2003  Thomson Derwent
```

18/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012924171 **Image available**
WPI Acc No: 2000-096007/200008
XRPX Acc No: N00-074094
Information delivery system such as video - on - demand **system for cable TV network, direct broadcast satellite video system**
Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE)
Inventor: HEER D N; MAHER D P
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5999629	A	19991207	US 95550910	A	19951031	200008	B

Priority Applications (No Type Date): US 95550910 A 19951031
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5999629	A		11	H04L-009/00	

Abstract (Basic): US 5999629 A
NOVELTY - Each of an information protection system access control system and subscriber terminals include a security module. Security modules (30,50) independently generate a symmetrical encryption key as a function of unique serial number and public key associated with other security modules. A **program** encryption **key** received from a security module (30) is decrypted using a symmetrical key.
DETAILED DESCRIPTION - An unique serial number (Sid) is generated in response to receipt of a particular stimuli via an input terminal. The serial number is used to uniquely identify the security module and for generating a public key (KPid) as a function of unique serial number. The serial number and **program** encryption **key** are encrypted using device unique key and the encrypted results are stored in a memory. An INDEPENDENT CLAIM is also included for the method of operating securing module.
USE - For cable TV network, direct broadcast satellite video system. Other examples are facsimile, telephone system.
ADVANTAGE - Encrypts unique identification **key** and **program** encryption **key** using device encryption key and stores the encrypted result in memory internal to security module, thus securing the keys against misappropriation.
DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of information delivery system.
Security modules (30,50)
pp; 11 DwgNo 1/5
Title Terms: INFORMATION; DELIVER; SYSTEM; VIDEO; DEMAND; SYSTEM; CABLE; TELEVISION; NETWORK; DIRECT; BROADCAST; SATELLITE; VIDEO; SYSTEM
Derwent Class: W01; W02
International Patent Class (Main): H04L-009/00
International Patent Class (Additional): H04K-001/00
File Segment: EPI

10/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004156519
WPI Acc No: 1984-302058/198449
XRPX Acc No: N84-225228
Television scrambling with remote selective de-scrambling - is for subscription TV system using several levels of encryption **algorithm**
Patent Assignee: CABLE HOME COMMUNICATION CORP (CABL-N); TITAN CORP (TITA-N); CABLE/HOME COMMUNICATION (CABL-N); MA-COM LINKABIT (MACO-N)
Inventor: GILHOUSEN K S; MOERDER K E; NEWBY C F; GILHOUSER K S
Number of Countries: 013 Number of Patents: 012
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 127381	A	19841205	EP 84303320	A	19840516	198449 B
AU 8428707	A	19841129				198504
NO 8402067	A	19841227				198507
DK 8402554	A	19841128				198513
JP 60057783	A	19850403	JP 84106346	A	19840525	198520
US 4613901	A	19860923	US 83498800	A	19830527	198641
EP 127381	B	19880406				198814
DE 3470368	G	19880511				198820
CA 1242793	A	19881004				198844
CA 1264848	A	19900123				199008
JP 2096489	A	19900409	JP 84330725	A	19840525	199020
DK 167332	B	19931011	DK 842554	A	19840524	199346

Priority Applications (No Type Date): US 83498800 A 19830527
Cited Patents: GB 1590579; US 3789131; US 4245246; US 4292650
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 127381	A	E	82		
Designated States (Regional): BE DE FR GB IT NL SE					
EP 127381	B	E			
Designated States (Regional): BE DE FR GB IT NL SE					
DK 167332	B			H04N-007/167	patent DK 8402554

Abstract (Basic): EP 127381 A

A working key signal is generated by processing an initialisation vector signal in accordance with the DES algorithm on the algorithm being keyed by a common **category key** signal or a signal having a predetermined relationship to this signal. A unique **encryptation** key stream is generated on processing the initialisation vector signal in accordance with DES algorithm on the algorithm being keyed by the working key signal. The TV signal is scrambled in accordance with the key stream.

A number of unique **encrypted category key** signals individually addressed to selected subscribers descrambles are operated by processing the initial common **category key** signal in accordance with the DES algorithm. The algorithm is keyed by a number of different unit key signals unique to different selected descramblers. The scrambled signal, initialisation vector signal and **encrypted category key** signals are broadcast to the descramblers. The descrambler uses a corresponding tier of DES algorithms to reproduce the **encryptation** key stream which is used to descramble the TV signal. Each descrambler has its unique unit key signal stored in a secure memory. This is for use in reproducing the common **category key** signal when the descrambler is addressed by its unique **encrypted category key** signal.

ADVANTAGE - The system is highly secure against unauthorised descrambling. At least three levels of **encryptation** algorithms are used in the scrambling and descrambling.

Title Terms: TELEVISION; SCRAMBLE; REMOTE; SELECT; DE; SCRAMBLE; SUBSCRIBER ; TELEVISION; SYSTEM; LEVEL; **ENCRYPTION** ; ALGORITHM
Derwent Class: W02
International Patent Class (Main): H04N-007/167
International Patent Class (Additional): H04K-001/00; H04L-009/00;

10/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008067359 **Image available**
WPI Acc No: 1989-332471/198945
XRPX Acc No: N89-253153

Secure keys reproduction using distributed key generation data - includes sequence number securely associated with category key **to time lock program key reproduction to use of current** category key

Patent Assignee: GEN INSTR CORP (GENN); GEN INSTR CORP DELAWARE (GENN); GEN INSTR CORP OF DELAWARE (GENN)
Inventor: BENNETT C J; HARDING M V; MORONEY P
Number of Countries: 018 Number of Patents: 011
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4864615	A	19890905	US 88200111	A	19880527	198945	B
EP 343805	A	19891129	EP 89304575	A	19890505	198948	
AU 8935272	A	19891130				199003	
NO 8902080	A	19891227				199006	
DK 8902594	A	19891128				199007	
CA 1331790	C	19940830	CA 598801	A	19890505	199436	
IE 62913	B	19950308	IE 891504	A	19890509	199520	
EP 343805	B1	19971001	EP 89304575	A	19890505	199744	
NO 301255	B1	19970929	NO 892080	A	19890524	199746	
DE 68928355	E	19971106	DE 628355	A	19890505	199750	
			EP 89304575	A	19890505		
ES 2107411	T3	19971201	EP 89304575	A	19890505	199803	

Priority Applications (No Type Date): US 88200111 A 19880527
Cited Patents: 1.Jnl.Ref; A3...9111; EP 127381; EP 132401; EP 164983; EP 194769; No-SR.Pub; US 4712238; WO 8500491
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4864615	A		23		
EP 343805	A	E		H04N-007/167	
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI NL SE					
EP 343805	B1	E	32	H04N-007/167	
Designated States (Regional): AT BE CH DE ES FR GB GR IT LI NL SE					
NO 301255	B1			H04L-009/14	Previous Publ. patent NO 8902080
DE 68928355	E			H04N-007/167	Based on patent EP 343805
ES 2107411	T3			H04N-007/167	Based on patent EP 343805
CA 1331790	C			H04L-009/02	
IE 62913	B			H04N-007/167	

Abstract (Basic): US 4864615 A

The key security system includes a circuit for **encrypting** first-key generation data with a first-key prekey in accordance with a first **encryption** algorithm to produce a first key. The first key is processed to produce a key stream and an information signal and is processed with the key stream to produce a scrambled information signal. The first-key prekey is **encrypted** with a second key in accordance with a second **encryption** algorithm to produce an **encrypted** first-key prekey. The scrambled information signal is the first-key generation data and the **encrypted** -first-key prekey are distributed and a descrambler includes device for providing the second key.

The distributed **encrypted** first-key prekey is decrypted with the second key in accordance with the second **encryption** algorithm to reproduce the first-key prekey. The distributed first-key generation data is **encrypted** with the reproduced first-key prekey in accordance with the first **encryption** algorithm to reproduce the first key. The reproduced first key is processed to reproduce the key stream. The distributed scrambled information signal is processed with the reproduced key stream to descramble the distributed scrambled information signal.

USE - Descrambling and decrypting systems in communications network

Title Terms: SECURE; KEY; REPRODUCE; DISTRIBUTE; KEY; GENERATE; DATA; SEQUENCE; NUMBER; SECURE; ASSOCIATE; CATEGORY; KEY; TIME; LOCK; PROGRAM; KEY; REPRODUCE; CURRENT; CATEGORY; KEY
Derwent Class: W01
International Patent Class (Main): H04L-009/02; H04L-009/14; H04N-007/167
International Patent Class (Additional): H04L-009/00; H04N-007/16
File Segment: EPI

```
Set     Items   Descripti
S1      42076   (CATEGOR?  PROGRAM? OR CONDITIONAL()ACCES?  OR PERMIT)(2-
             N)(KEYPAIR? OR KEY? ?)
S2    1131836   CATV OR VOD OR VIDEO()ON()DEMAND? OR CABLE(N)(TV OR TELEVI-
             SION? OR BROADCAST?) OR SATELLITE? OR DIGITAL()(RIGHT? OR PRI-
             VILEGE?) OR (RIGHT? OR COPYRIGHT? OR INTELLECTUAL()PROPERT?)(-
             N)(MANAGE? OR ADMINIST? OR CONTROL?)
S3    4527622   CONTENT? OR SUBJECT OR SUBJECTS OR CATEGORY OR CATEGORIES?
             OR TOPIC?
S4     214031   ENCRYPT? OR ENCIPHER? OR DECIPHER? OR DECRYPT? OR CIPHER? -
             OR CYPHER? OR CRYPTOGRAPH? OR CRYPTO
S5    3401441   (RIGHT? OR COPYRIGHT? OR ROYALTY OR ROYALTIES OR INTELLECT-
             UAL()PROPERT?)(2N)(MANAGE? OR RIGHT? OR ADMINISTRAT? OR CONTR-
             OL?)
S6     177501   PPV? OR PAY()PER()VIEW? OR VOD OR VIDEO()ON()DEMAND? OR DI-
             GITAL()MEDIA? OR (E OR ELECTRONIC OR DIGITAL)()BOOK? ? OR EBO-
             OK?
S7        128   S1(S)S2(S)S3
S8         39   S5(5N)(S2 OR S6)(S)S1
S9        147   S1(3N)S5
S10         4   S4(S)S9
S11         4   S4(3S)S9
S12       290   S7 OR S8 OR S9
S13        53   S12 NOT PY>1994
S14        46   S13 NOT PD=19940401:19970401
S15        46   S14 NOT PD=19970401:20010401
S16        46   S15 NOT PD=20010401:20030909
S17        32   RD (unique items)
File 275:Gale Group Computer DB(TM) 1983-2003/Sep 03
         (c) 2003 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2003/Aug 25
         (c) 2003 The Gale group
File  75:TGG Management Contents(R) 86-2003/Aug W3
         (c) 2003 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2003/Sep 03
         (c) 2003 The Gale Group
File  16:Gale Group PROMT(R) 1990-2003/Sep 03
         (c) 2003 The Gale Group
File 624:McGraw-Hill Publications 1985-2003/Sep 03
         (c) 2003 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2003/Aug W5
         (c) 2003 ProQuest
File 613:PR Newswire 1999-2003/Sep 04
         (c) 2003 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2003/Jul
         (c) 2003 The HW Wilson Co
File 239:Mathsci 1940-2003/Oct
         (c) 2003 American Mathematical Society
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2003/Sep 03
         (c) 2003 The Dialog Corp.
File 553:Wilson Bus. Abs. FullText 1982-2003/Jul
         (c) 2003 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2003/Sep 03
         (c) 2003 The Gale Group
File 674:Computer News Fulltext 1989-2003/Aug W5
         (c) 2003 IDG Communications
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17/3,K/24 (Item 9 fr[redacted]file: 16)
DIALOG(R)File 16:Gale Gr[redacted] PROMT(R)

01440558 Supplier Number: 41726871 (USE FORMAT 7 FOR FULLTEXT)
Show Developments Hit on All Fronts
Multichannel News, v0, n0, p35
Dec 10, 1990
Language: English Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 856

ABSTRACT:
By GARY KIM
ANAHEIM, Calif. -- It would be hard to name any **key category** of **cable TV** equipment left untouched by the headlong rush of advanced new technology. Indeed, from the ubiquitous...
ANAHEIM, Calif. -- It would be hard to name any **key category** of **cable TV** equipment left untouched by the headlong rush of advanced new technology. Indeed, from the ubiquitous...